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APPLICATION NO.	FILI	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/904,190	07	/10/2001	Charles William Rowe	900122.425	1220
500	7590	09/24/2002			
SEED INTELLECTUAL PROPERTY LAW GROUP PLLC				EXAMINER	
701 FIFTH A SUITE 6300			PULLIAM, AMY E		
SEATTLE, WA 98104-7092				ART UNIT	PAPER NUMBER
				1615	
			DATE MAILED: 09/24/2002 🗸		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examin r	·	Application No.	Applicant(s)						
Amy E Pulliam 1015	Office Action Commons		ROWE ET AL.						
Th. MALING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION. Extensions of them mybe available under the provisions of 3 CFR 1.138(b). In one went, however, may a reply be timely filed **If the period for reply specified above is less than thirty (30) days, as reply within the stated cry replant and the communication of 5 CFR 1.138(b). In one went, however, may a reply be timely filed **If the period for reply specified above, the maritime state and part of the period for reply specified above, the maritime state and part of the communication of the period for reply with by stated they period for reply with the stated part of the communication of the period for reply with the stated part of the communication of the period for reply with the stated part of the communication of the period of the communication of the commu	Office Action Summary	Examin r	Art Unit						
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2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are epicted. 7) Claim(s) are subject to the extraction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121. Attachment(s) 10 Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 190(b) (to a provisional application (PTO-152)	 THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 								
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DETAILED ACTION

Receipt of Papers

Receipt is acknowledged of the Information Disclosure Statement, Declaration and Fee,

Extension of Time, Preliminary Amendment A, and the Supplemental Information Disclosure

Statement, received by the Office February 5, 2002, February 15, 2002, February 15, 2002,

August 10, 2002, and April 15, 2002, respectively.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 7 recites that the particles of the bulk powder substance comprise at least approximately 60% by weight of the powder. It is unclear what "the powder" refers to.

Furthermore, the claim language in general is unclear. Is applicant attempting to claim that the powder substance comprises 60% bulk powder and 40% migration control substance? If so, the claim language needs to be amended to reflect this. Otherwise, clarification of the claim is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7, 9-12, and 14-18 rejected under 35 U.S.C. 102(b) as being anticipated by WO

98/36739 to Yoo et al. Yoo et al. disclose a rapidly dispersing dosage form, which releases its active ingredients within a period of less than about ninety seconds. Yoo et al. teach that the unconventional dosage forms of their invention are built through an SFF process, such as 3DP (p 4, 127-28). You et al. teach that the dosage form comprises a solid matrix incorporating at least one active ingredient, a bulk material and a binder, wherein the bulk material comprises at least one pharmaceutically acceptable compound in powder form, and the binder comprises a substantially water-soluble pharmaceutcally acceptable substance that together with the powdered compound allows the matrix to maintain its three-dimensional structure in the absence of excess moisture (p 4, 12-9). Yoo et al. teach that the process involves spreading a layer of powder, then in selected regions adding the binder to the powder particles to form layers containing solid regions, the thickness of which varies as a function of binder properties and the amount of fluid applied per unit area (p 6, 125-30). This step is repeated until the desired number of layers for the dosage form is complete (p 7, 1 1-5). You et al. further teach that the bulk powder material can be lactose, fructose, sucrose, dextrose, sorbitol, mannitol, xylitol, and microcrystalline cellulose (p 8, 1 18-20). You et al. teach that the binder is essential to the invention, as it produces adhesion between the particles of the powder and the binder material. Yoo et al. teach that the binder can be a solvent for the bulk material or a further substance that is capable of bonding to particles of the bulk compound (p 8, 126-28). Furthermore, the binder may be included in either the powder material or in the fluid. Suitable binder material include,

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but are not limited to arabinogalactan, polyvinylpyrrolidone, sorbitol, mannitol, xylitol, and the like (p 9, 1 3-5). Yoo *et al.* also teach that a wide variety of substances can be used as the bulk material and the binder, including water- soluble synthetic polymers (p 11, 1 2-4). Yoo *et al.* also teach aqueous solutions of the binder material (p 15, 15,6).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1- 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoo et al., as discussed above. Yoo et al. are described above as teaching a rapidly dispesing dosage form, made by the process of 3DP. Yoo et al. further disclose that the composition used in the process comprises a bulk powder substance, a binder in solution, and a pharmaceutical agent.

Yoo et al. does not refer to the ingredients employed in their composition and process by the same names used by applicant. However, it is the position of the examiner that the migration controlling agents claimed by applicant are actually well known binders in the pharmaceutical art (see below for further discussion). Therefore, the particular syntax used by applicant does not render the claims patentable.

Furthermore, Yoo et al. do not teach that the particle size of the migration control substance is less than 38 microns. However, it is the position of the examiner that absence a showing of criticality, determination of a particular particle size is a manipulatable paramater as

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part of the process of optimization for one of ordinary skill in the art. Any unexpected results must be dependant on the particle size in order to show criticality.

Additionally, Yoo et al. do not specifically teach that the migration control substance is methacrylate or methacrylic ester copolymer. However, it is the position of the examiner that the substances claimed by applicant as migration control substances are all well known binders in the pharmaceutical art. Furthermore, it is the position of the examiner that methacrylates are well known in the art as acceptable pharmaceutical binders. However, to reiterate this point, the examiner points to Internation Cosmetic Ingredient Dictionary and Handbook (Attached) which gives a list of acceptable binders. Acrylates, as well as celluloses, polyvinylpyrrolidone, xanthan gum, locust bean gum, gelatin, guar gum, and others, are all listed as appropriate binders. It is the position of the examiner that this disclosure shows equivalency between the listed compounds. Therefore, one of ordinary skill in the art would have been motivated to use any well known binder, or combination of binders in the teachings of Yoo et al. The motivation lies in the teaching of equivalency. The expected result would be a successful rapidly dispersing dosage form, as taught by Yoo et al.

Lastly, Yoo et al. does not specifically state a method of controlling binder migration. However, it is the position of the examiner again that this in only a syntax differentiation. As stated above, it is the position of the examiner that the migration controlling substances claimed by applicant are known in the pharmaceutical art by another name, binders. Yoo et al. specifically state that the binder is an essential element of the invention, as it produces adhesion between particles of the powder and binder material (p 8, 121-22). In other words, the binder prevents binder migration. Furthermore, Yoo et al. teach that the fluid used in the composition

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and process is a pharmaceutically acceptable solvent or combination of solvents, and may

contain one or more binders and actives. It is the position of the examiner that Yoo et al. does

teach tha method of controlling migration, except it is not referred to by the same name. For

these reasons, this invention as a whole would have been *prima facie* obvious to one of ordinary

skill in the art at the time the invention was made.

Correspondence

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Amy E Pulliam whose telephone number is 703-308-4710. The

examiner can normally be reached on Mon-Thurs 7:30-5:00, Alternate Fri 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thurman Page can be reached on 703-308-2927. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-305-3592 for regular

communications and 703-305-3592 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-1235.

Amy E. Pulliam Patent Examiner

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aep

September 23, 2002